

**THERMOSENSITIVE POLYMERS FOR THERAPEUTIC USE AND  
METHODS OF PREPARATION**

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**ABSTRACT OF THE DISCLOSURE**

A process for preparing a thermosensitive polymer from a microemulsion is provided. The microemulsion comprises a monomer capable of forming a thermosensitive polymer and a polymerizable surfactant. Additional comonomers may be included in the microemulsion to vary the properties of the polymers produced. The resulting thermosensitive polymers may be nanoporous. The polymers according to the invention are suitable for use in medical applications, including use as a wound dressing and for delivery of cells to a graft site.